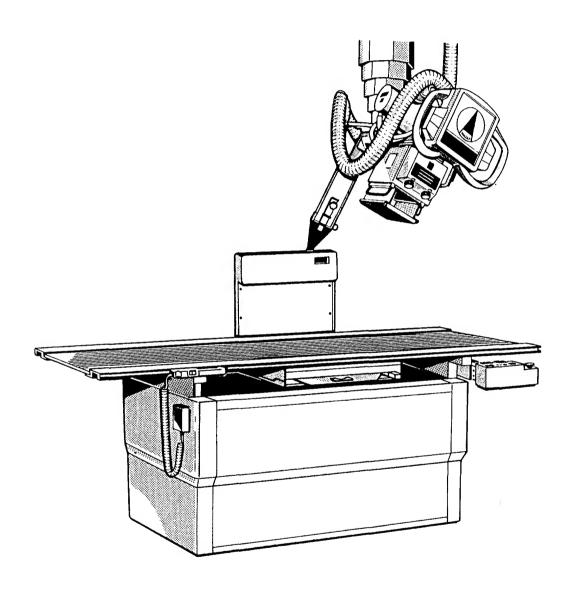
Mounting instructions ET 2000 TOMO TOSHIDA



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1. TECHNICAL DATA

1.1 General Safety Notes

In the Federal Republik of Germany, the electrical installation of rooms used for medical purposes must conform to the provisions of VDE Standard 0107. Consult installation lay-out plan.

During installation it is important that all protective ground wire connections provided by the manufacturer are properly made before the equipment is started up.

The protective ground wires betweem the individual system components and the power supply are connected as shown in the wiring diagram.

Regulations of professional associations concerning safety and accident prevention must be observed.

No work may be performed on parts carrying a voltage higher than 42 V (Peak Voltage).

If it is necessary to turn on the power for execution of movements of the equipment in the course of the installation procedure, it must be shut down immediately after completion of these movements.

1.2 General Specifications

Note:

The motor driven ET 2000-Tomo device allows tomographic exposures with the DST 100A.

If supplied with the ET 2000, several parts are preinstalled.

Film-Focus Distance (FFD) for

tomographic exposures: 100 cm

Fulcrum Range: 0 - 24 cm, motor driven

Plane Height Indication: Digital Display

Angles, Tomography: 40° and 20° Zonography: 8°

Speeds, Tomo 40° and 20° fast: c. 24 cm.p.s. Tomo 40° and 20° slow: c. 12 cm.p.s. Zono 8°:

c. 9 cm.p.s.

03/96 -3-0323 7223

Approximate Exposure Times:

Plane
Height 40° << 40° < 20° << 20° < 8°
24 cm c.2,1 sec c.4,1 sec c.1,05 sec c.2,1 sec c.1,0 sec
18 cm c.2,1 sec c.4,6 sec c.1,1 sec c.2,3 sec c.1.1 sec
12 cm c.2,5 sec c.5,0 sec c.1,25 sec c.2,5 sec c.1,2 sec
6 cm c.2,6 sec c.5,2 sec c.1,3 sec c.2,6 sec c.1,3 sec

1.3 Measures and Weights for Shipment

1 Crate 1350 mm x 780 mm x 600 mm c.53 in. x c.30,7 in.x c.23,6 in.

Gross weight c. 125 kg 274 lbs. Net weight c. 58 kg 127 lbs.

1.3.1 During regular work

Temperature: -25 to 70°
Humidity: 5% to 95%
Air pressure: 700 hPa to 1100 hPa

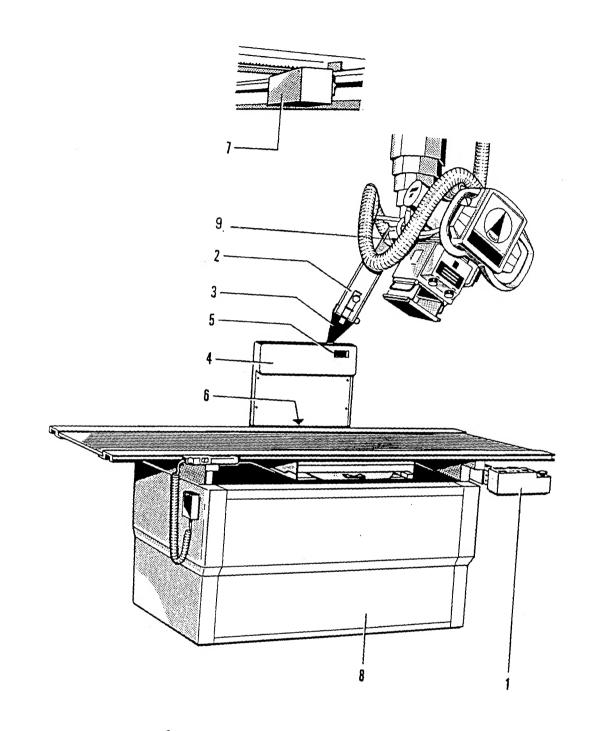
1.3.2 During transport

Temperature: 10° to 40° Humidity: 20% to 80%

Air pressure: 700 hPa to 1100hPa

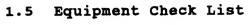
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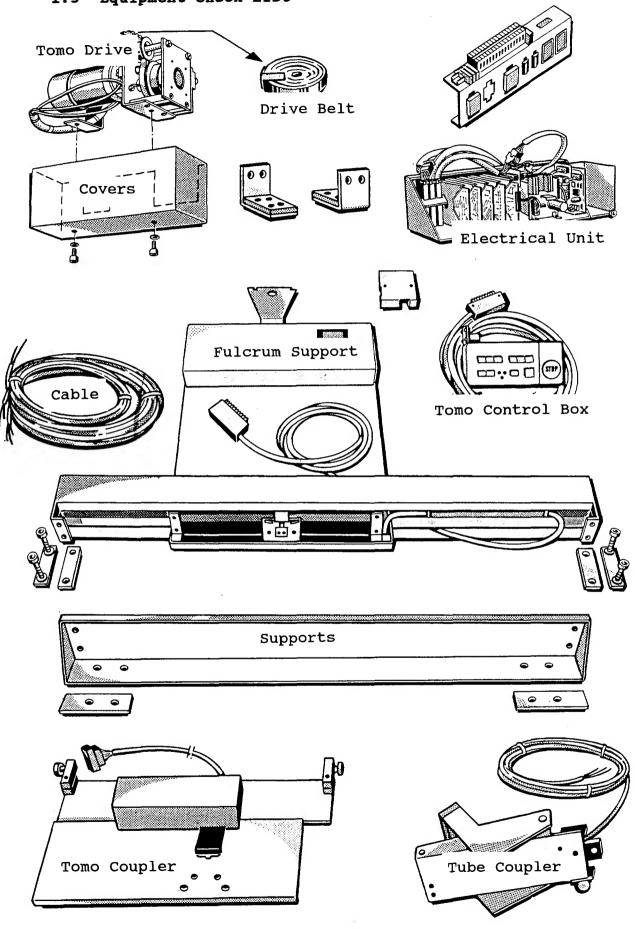
1.4 Component Designations



- 1. Tomo Control Box
- 2. Tube Coupler
- 3. Coupling Bar 4. Fulcrum Support
- 5. Digital Display
 6. Tomo Coupler
 7. Tomo Drive

- 8. Electrical Unit
- 9. Interlock Knob





1.6 Mains Connection Data

The mains connection is carried out via plug-in connectors of the ET 2000.

Mains Connection: 230 V or 115 V

Frequency:

50/60 Hz

Nominal Current:

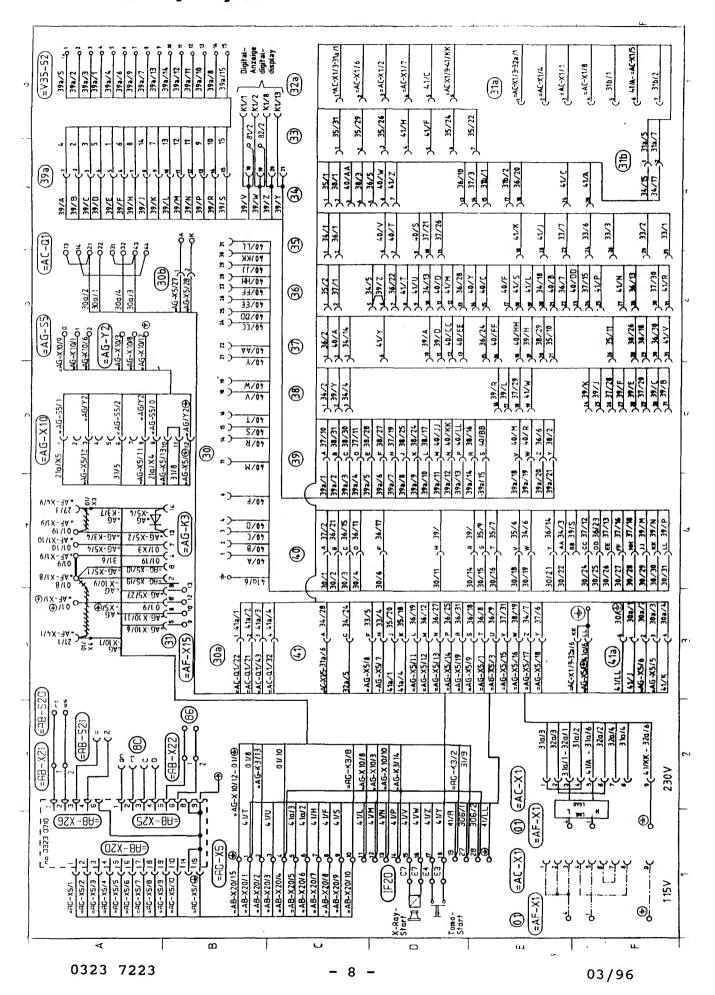
A 1 (2)

Nominal Capacity: 0,2 KVA

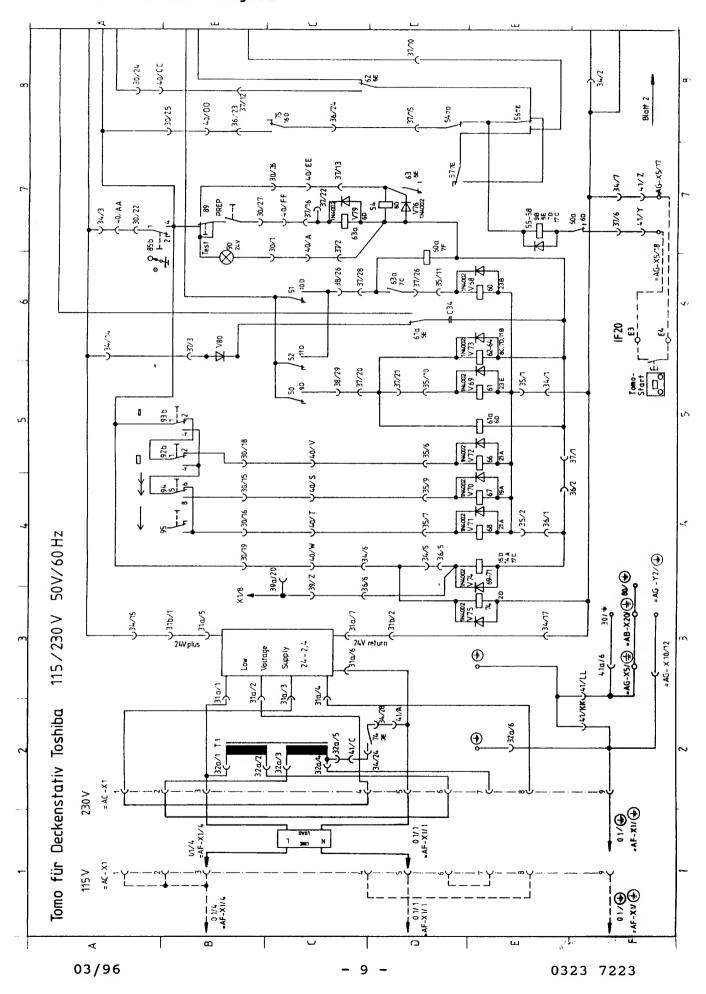
1.7 Measuring Instruments Required

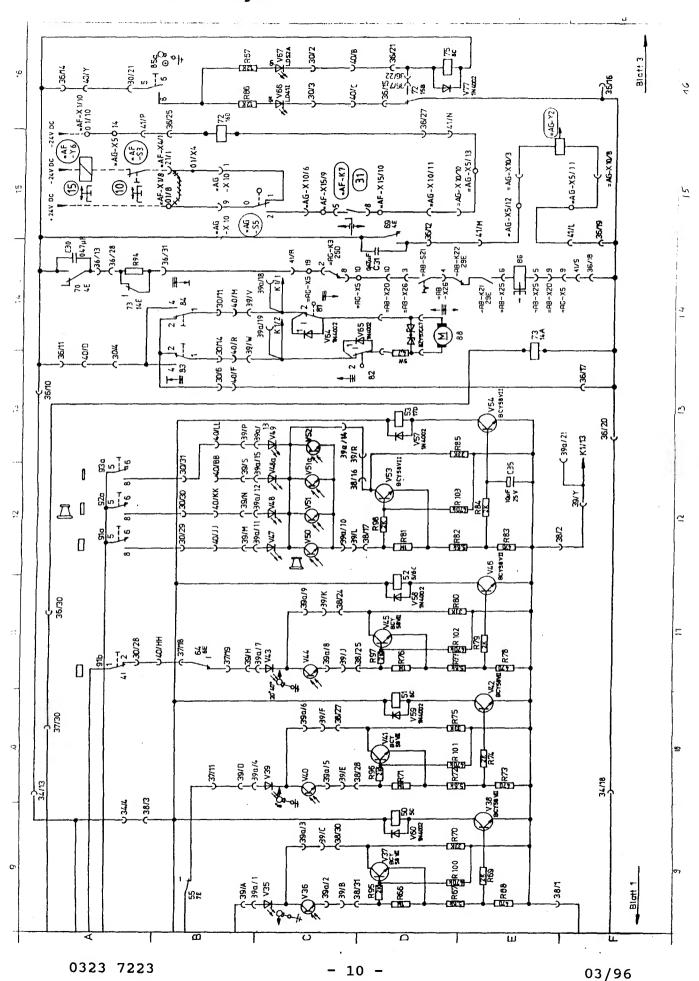
Air Level Phontom

1.8 Wiring Diagram

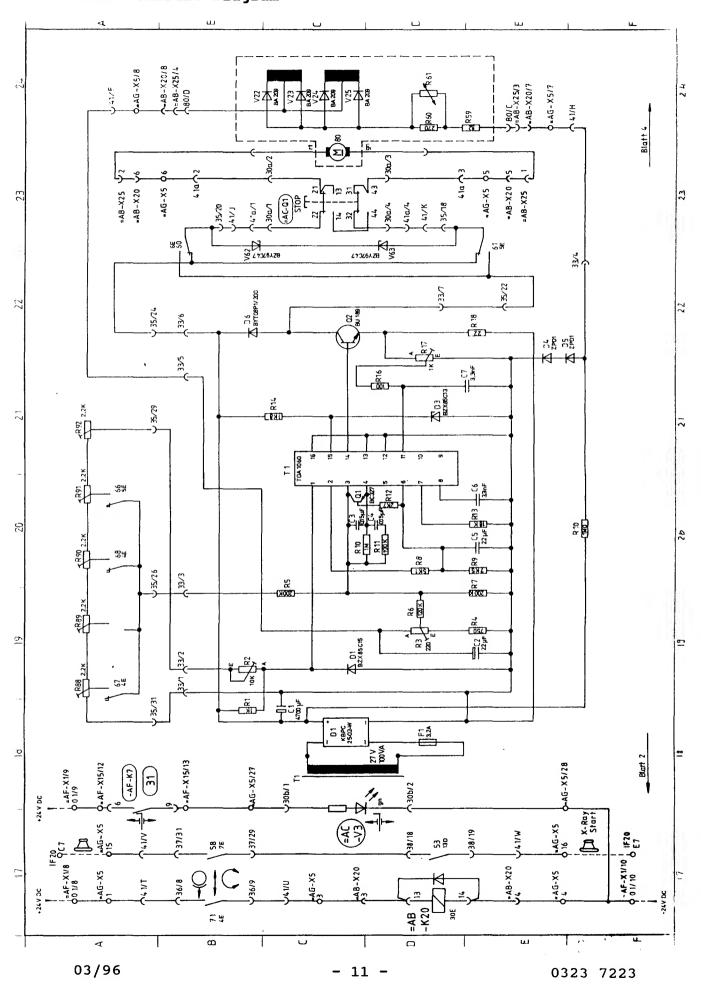


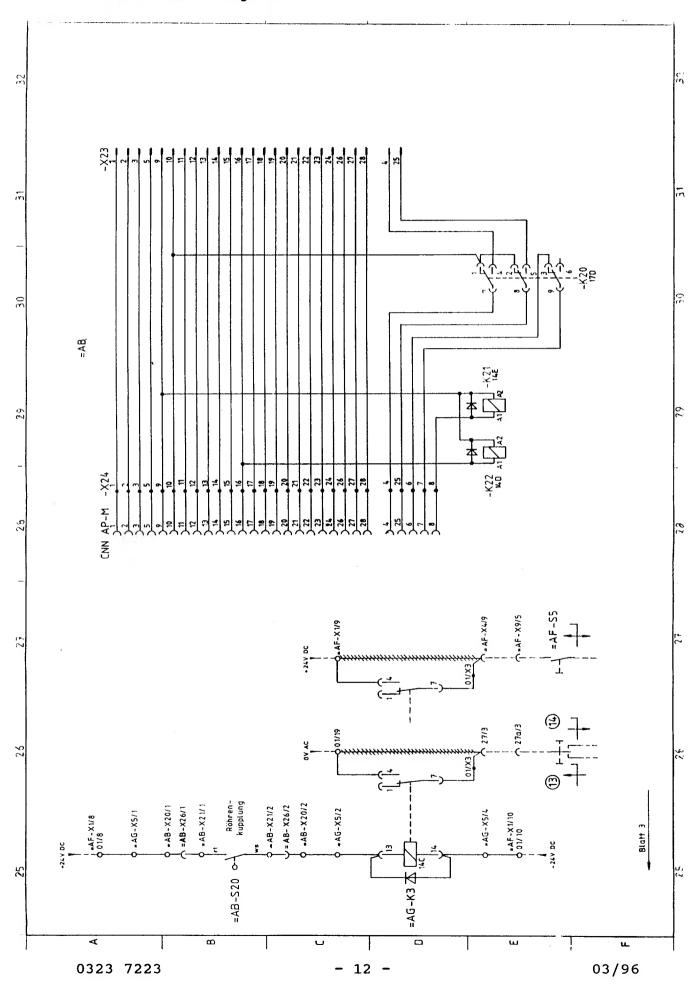
1.8.1 Current Diagram



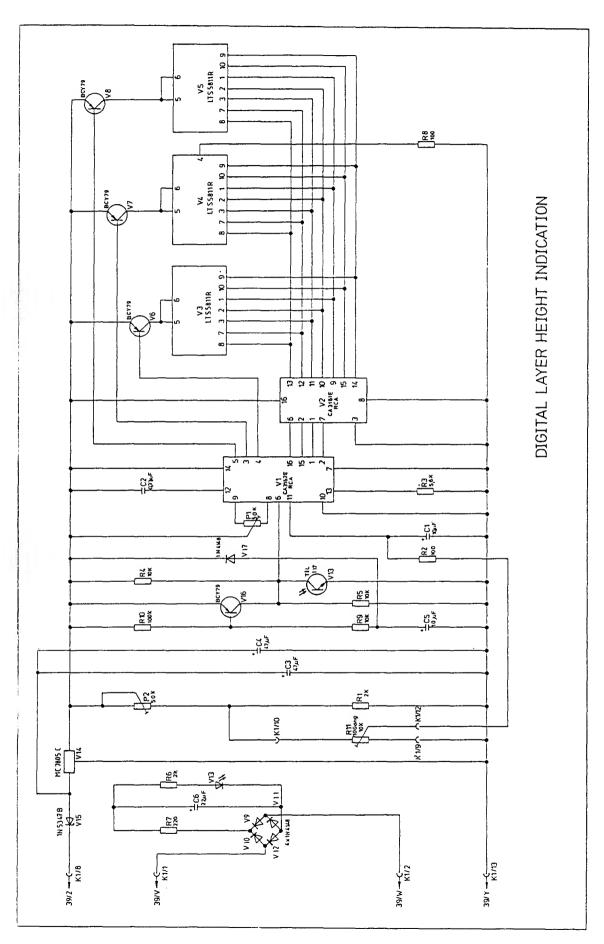


1.8.3 Current Diagram

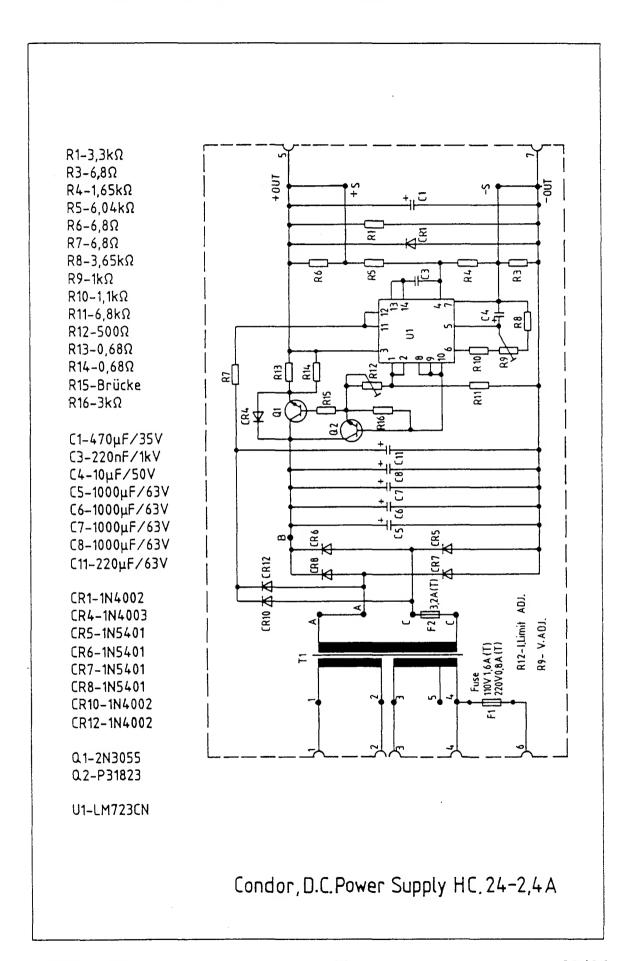




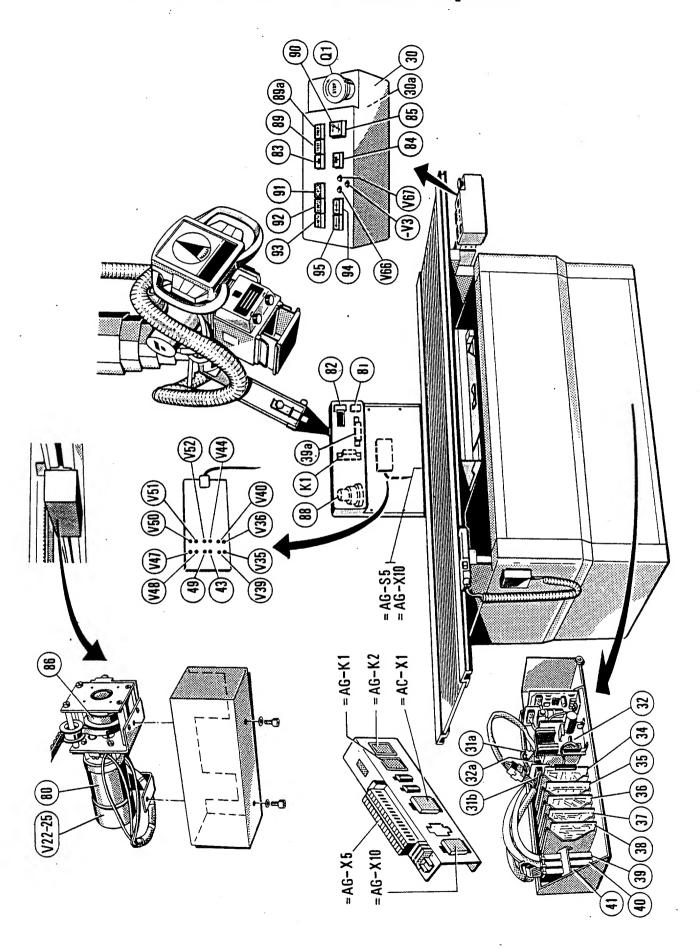
1.8.5. Current Diagram of Digital Display



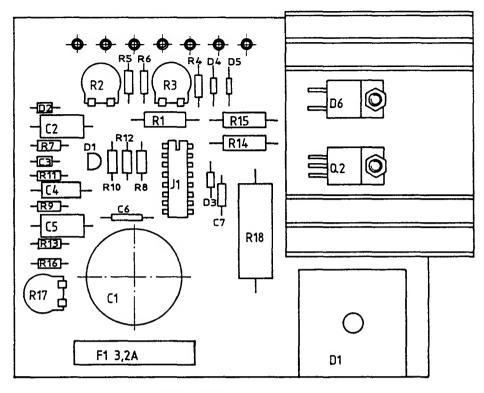
1.9 .Current Diagram of Power Supply



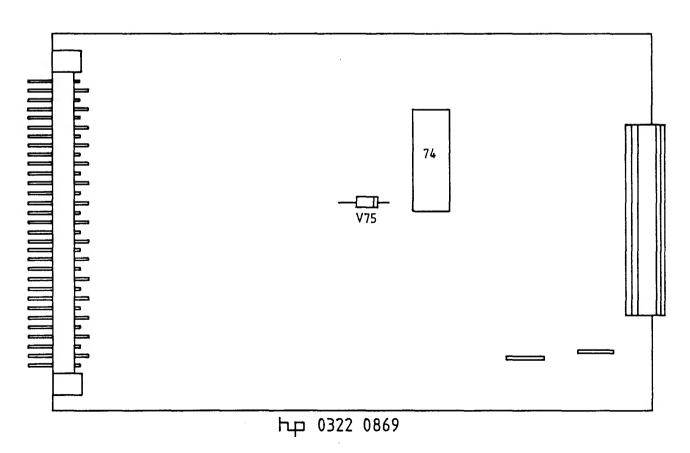
1.10 Physical Location of Electrical Components



1.10.1 Electric Field Installation Diagram

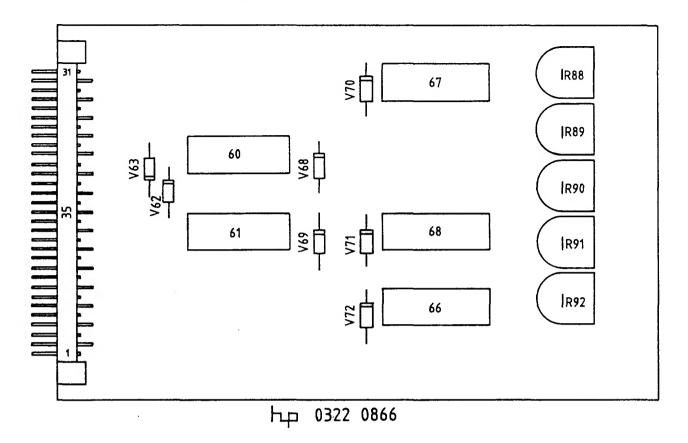


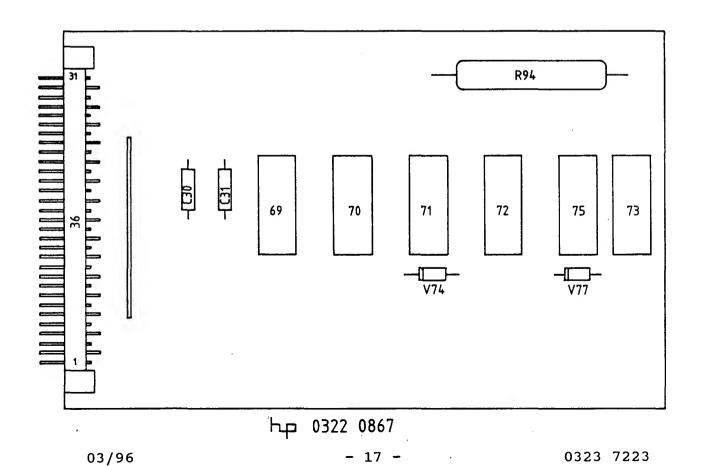
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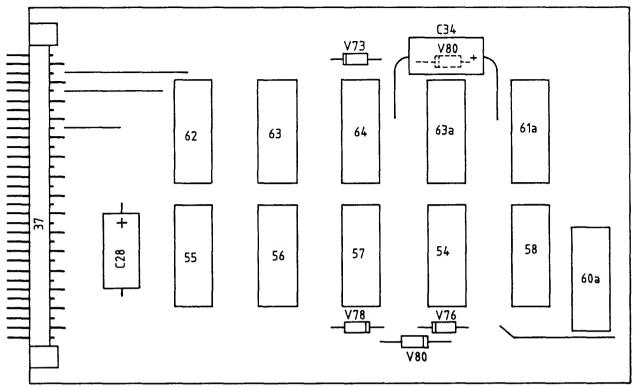
0323 7223

1.10.2 Electric Field Installation Diagram

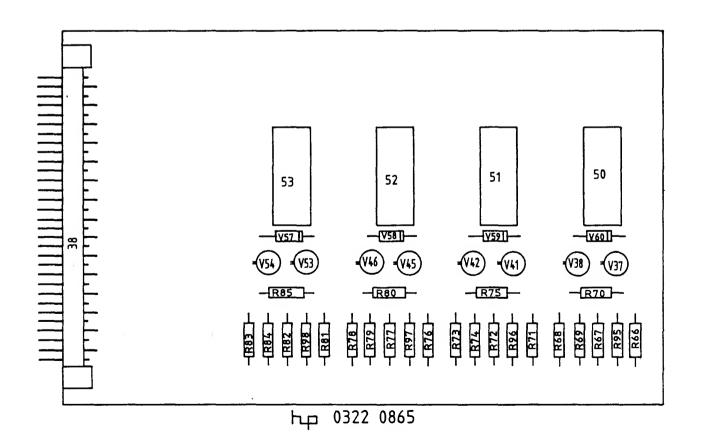




1.10.3 Electric Field Installation Diagram

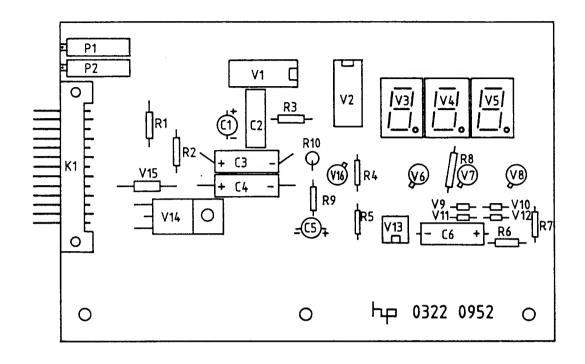


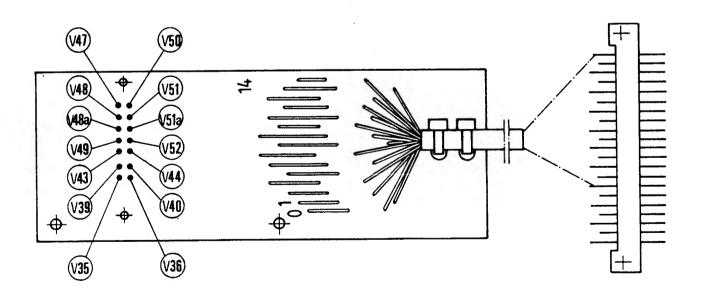
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1.10.4 Electric Field Installation Diagram





2. INSTALLATION

2.1 Uncrating

Remove packing material. Check for completeness and upon shipping damage.

2.2 Removal of Covers

Drive the ET 2000 of maximum height.

Switch ET 2000 power off.

Remove plastic caps (Fig. 1, Item 1). Loosen two socket screws with 4 mm wrench. Swing cover (Item 2) to the front and pull up. Remove the two screws (Item 4) and take out the strut (Item 3). Lift up the trim cover (Item 5) a little bit, tilt it to the front and pull down.

Remove screws (Fig. 1, Item 7 + 8) and (Fig. 2, Item 10, 12, and 14).

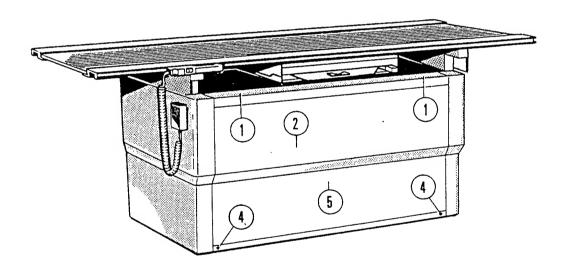


Fig.1

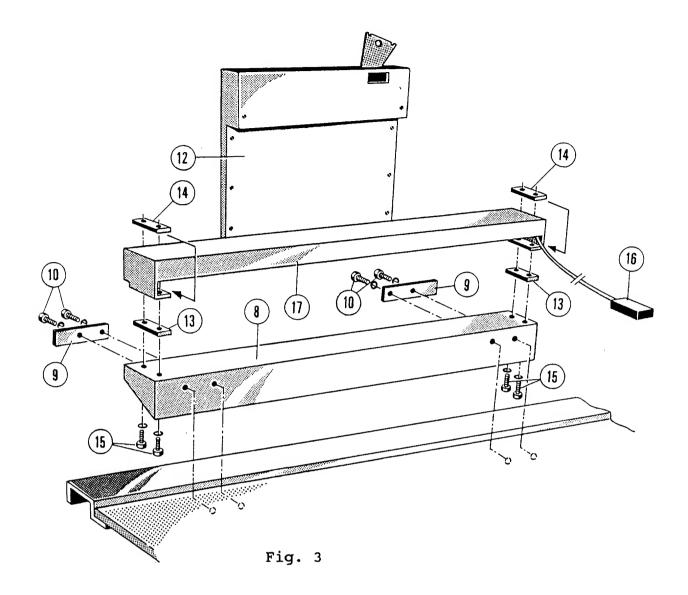
2.3 Mounting of Bracket

Hold bracket (Fig. 2, Item 8) from the back to the table, insert the reinforcing strips and tighten with screws.

Attention:

The bracket has to be conclusive with the table frame border.

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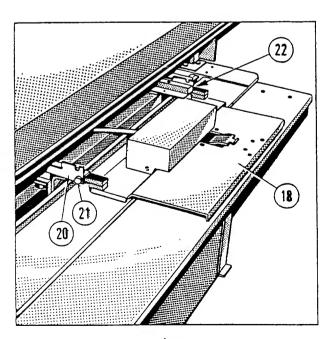


Fig. 5

2.4 Tomo Coupler Installation

Install the Bucky-Tomo-Coupler (Fig. 5, Item 18) with screws (Item 21 + 22) to the carriage of the Bucky (Item 20).

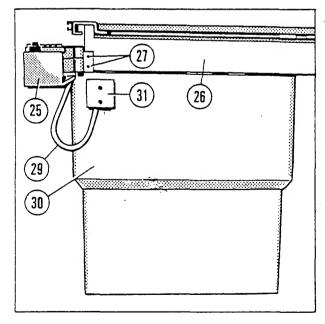
Place plug with cables up to the plate for parts.

2.5 Mounting of Fulcrum Tower

Place fulcrum tower (Fig. 3, Item 12) on bracket (Item 8). Put through cables with plug (Item 16) between rear table frame rail and Bucky carriage guide rail. Put two stiffening plates (Item 13) on both sides under balance (Item 17). Fasten fulcrum tower with screws (Item 15) and thread rail (Item 14).

2.6 Mounting of Control Box

Fasten control box (Fig. 6, Item 25) to table frame (Item 26) with screws. Remove cover of side wall (Item 31) and put cables for control box (Item 29) through bore-hole. Put cables in cable guide box (Item 31). Check whether there is enough space for the cables. Mount cable box to table and fasten cables on the bottom of the tube side with cable fastener and then, lay them down.



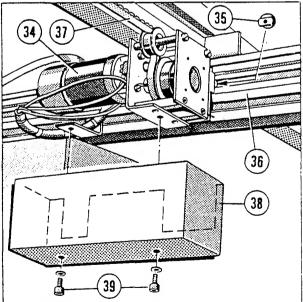


Fig. 6

Fig. 7

2.7 Mounting of Motor Drive

Move in sliding block (Fig. 7, Item 35) in cross guide rail (Item 36) and fasten column drive motor (Item 34) temporarily.

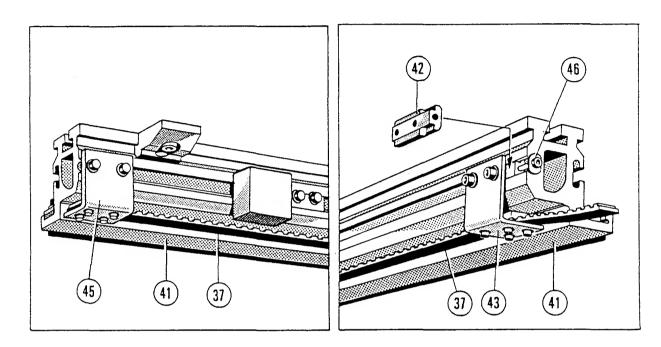


Fig. 8

Fig. 9

2.8 Mounting of Drive Motor

Mount belt fixing angle (Fig. 8, Item 45) on the left-hand side to ceiling guide rail (Item 41). Mount belt fixing angle (Fig. 9, Item 43) under consideration of the tension to ceiling guide rail (Item 41).

2.9 Tightening of Drive Belt

Insert drive belt (Fig. 8 und Fig. 9, Item 37) to both belt fixing angle (Item 49 and Item 37) and tighten to fixing screw (Fig. 9, Item 46). Align column drive motor and fasten finally.

2.10 Mounting of Tube Coupler

Remove cover from ceiling column (Fig. 11, Item 53). Fasten tupe coupler with screws (Fig. 10, Item 48) under consideration of the 8 mm space to axis of rotation (Item 49) of the ceiling column (Item 51). Put connection cable over the flexible tube to ceiling column guide.

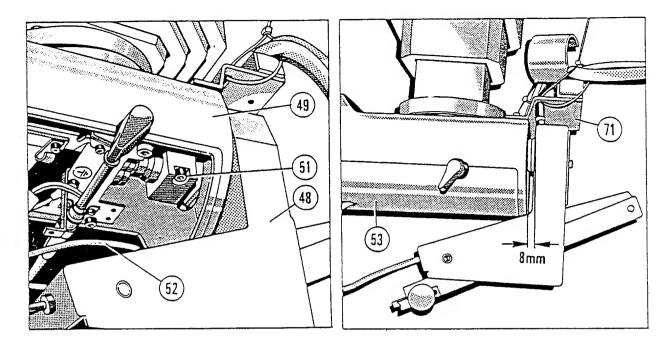


Fig. 10

Fig. 11

2.10a Modification of the DST-100A Support Arm

Remove the support arm cover, and brackets ${\bf A}$ and ${\bf B}$. See (Fig. 11a).

Mount bracket C after removing bracket B (with two M4 Philips plan head screws. See (Fig. 11b)

Remove the two M3 \times 8 Philips screws from the solenoid, and two M4 \times 12 Philips screws from the solenoid mounting plate, and use the screws to secure the interlock switch unit See (Fig. 12)

Mount bracket **D** after removing bracket **A**. See (Fig. 12) Remove the resin cap from standard support arm and mount the joint and connecting plate. See (Fig. 12)

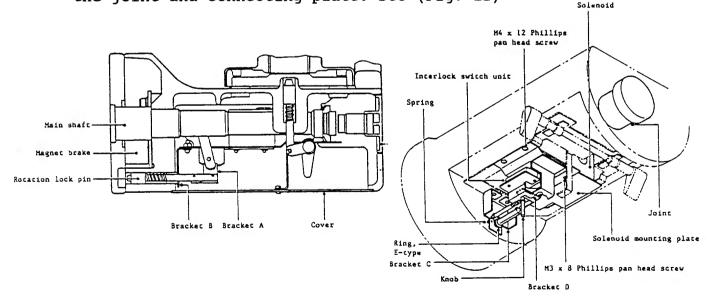


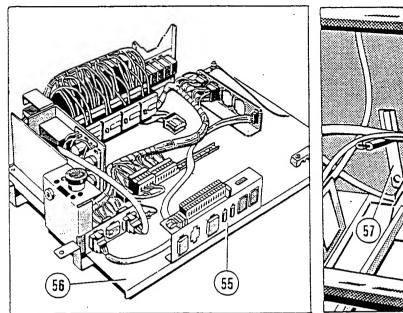
Fig. 11a

Fig. 11b

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2.11 Mounting of Tomo-Interface

Mount tomo-interface angle (Fig. 12, Item 55) to electro component plate (Item 56).



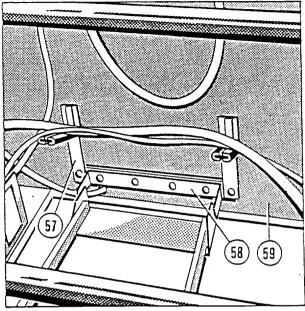
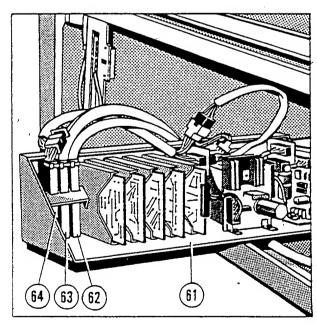


Fig. 12

Fig. 13

2.12 Installation of Electrical Unit

Mount drawer guide (Fig. 13, Item 58) with both cable guide rail angle (Item 57) to back wall (Item 57). Insert electrical unit (Fig. 14, Item 61) to drawer guide.



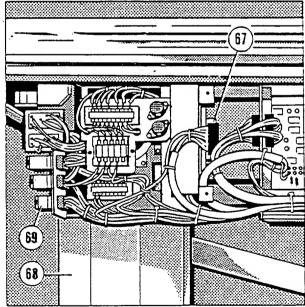


Fig. 14

Fig. 15

2.13 Insert Relais Board to Ceiling Column

Disconnect plug-in connection CNN AP-M. Fasten relais
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board 0323 0710 to ceiling column mechanically.

2.14 Cabeling

Attention:

Pay attention to wiring diagram !!!

Part Plate (Fig. 12)

Press cable beam to relais =AF-X15 and clamp to screw terminal =AF-X1. Line off =AF-X1 (comes from =AF-X9) uncouple and tighten unsolvable with plug 01/X3. Uncouple line =AF-X1/8 (comes from =AF-X1) and tighten unsolvable to plug 01/X4.

Ceiling Column (Fig. 15)

Put plug CNN AP-M to plug-in connexion =AB-X23 of the relais board 0323 0710. Put new plug (coming from the relais board) to pin plug CNN AP-M. Place connection cable of the ET 2000 to ceiling column and connect plug =AB-X5 to relais board. Place cable from the tube coupler over the grooved flexible tube to relais board and couble for motor drive (Fig. 6) from the motor drive starting to relais board and couple with plug =AB-X25. Then connect each line to the motor drive considering the colour as well as the desription. Put in tomo electric (Fig. 14) cable control box (Item 62) cable fulcrum tower (Item 61) cable tomo coupler in =AG-X10.

2.15 Mount New Cable Support

Dismount cable support (Fig. 11, Item 71) and mount new cable support.

Attention: The grooved flexible tube has to mounted to wall stand from the opposite.

Range of movement: -70° - +125° respectively -125° - +70°

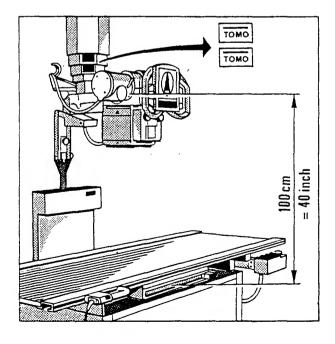


Fig. 16

2.16 Installation of Tomo Marks

Bring radiation unit up to 100 cm SID. Mark on telescope with pencil. Move radiation unit some cm to the foot side and install Tomo mark (Fig. 16, Item 80) to telescope column (Item 81).

3. Adjustment

3.1 Adjustment of Fulcrum to Film Plane

Remove front panel (Fig. 25, Item 73) and rear cover (Item 74).

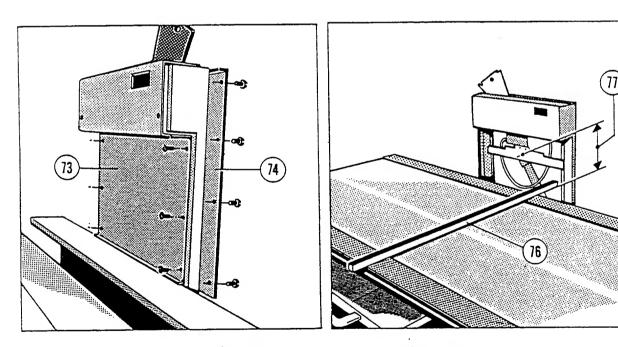


Fig.25

Fig. 26

Place ruler (Fig. 26, Item 76) across profile rails of table top.

Measure the distance between lower edge of ruler and film plane (Fig. 27, Item 78). Adjust the fulcrum of the coupling bar to the distance measured (Fig. 28).

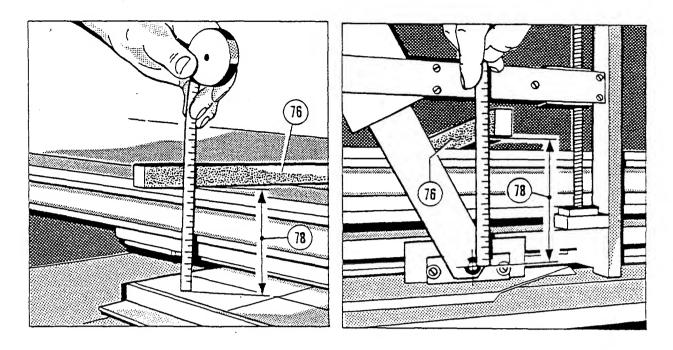


Fig.27

Fig. 28

3.2. Setting of Layer Height

Remove front cover (Fig. 25, Item 73 + 75). Place ruler (Fig. 26, Item 76) across profile rails of table top. Push button until layer height is level with table top. The distance between upper table edge and ruler must be equal the distance between ruler and fulcrum (Item 77). Set potentiometer (Fig. 29, Item 84) to "O cm". Drive layer height to 24 cm distance between fulcrum and upper edge of table top. Set pot (Item 85) to "24 cm".

Note:

Proper adjustment requires a 10 minute warm-up period. The procedure must be repeated several times, the pots (Fig. 29, Item 84 + 85) are interactive.

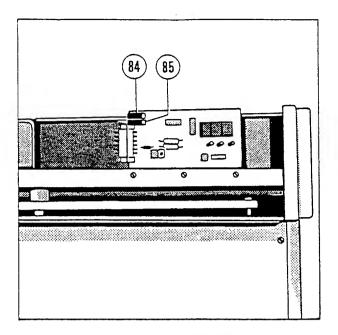


Fig.29

3.3 Timing of Exposure Cycles

Open clamp (Fig. 15, Item 58) to interrupt function of magnetic clutch. Mark the clutch. Push TEST button and count cycles for 60 seconds.

24 cm.p.s 60 r.p.m. at 12 cm layer height, 40° <<, 2,2 sec. 12 cm.p.s.30 r.p.m. at 12 cm layer height, 20° < , 2,2 sec. 9 cm.p.s.22,5.r.p.m.at 12 cm layer height, Zono 1,2 sec.

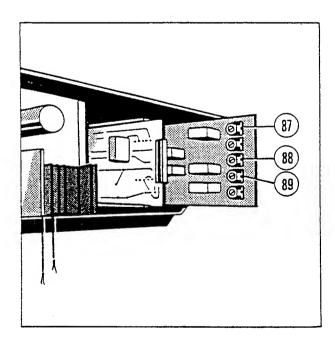


Fig.30

In case of deviations, adjust with pots:

Fig. 30, Item 87 (R 88) fast speed Item 88 (R 90) slow speed Item 89 (R 91) Zono speed

3.4 Switch flap

Remove cover of TOMO coupling. Actuate solenoid (Fig. 31, Item 91) by hand and move the bucky in coupling position. The switch flap should not touch the edge of the sliding carriage. Adjust, if necessary. Therefore loosen screws (Item 93) and turn lever (Item 94).

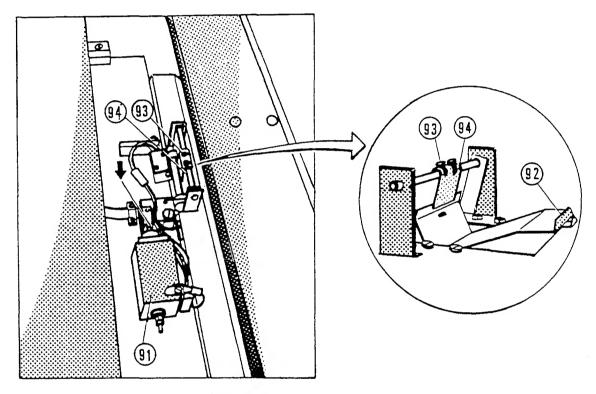


Fig.31

4. TECHNICAL MAINTENANCE

4.1 Mechanical and Electrical Tests

Note:

The maintenance schedule described below must be carried out at 12month intervals. If functional tests require power, switch off power immediately afterwards.

power, switch off power immediately afterwards.

Defective parts must be replaced by genuine spare parts acc. to spare parts list.

Use only non-acid grease for maintenance.

Do not grease or oil ball bearings with sealing washers.

Preperation

Switch off equipment.

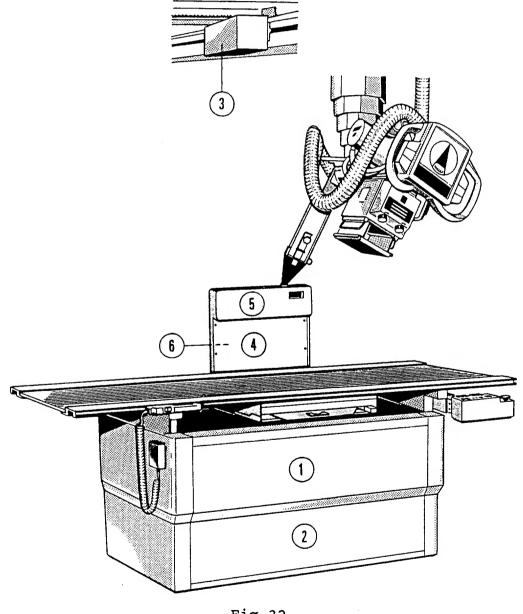


Fig.32

Remove covers (Fig. 32, Item B-F and 73 - 75).

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Tube Coupler:

- Check screws and tighten, if necessary.
- Check on smooth operation and play.
- Adjust with set screw, if necessary.
- Check compression spring to pull coupler in park position.
- Check magnet to hold coupler in park position.
- Coupling mechanism must have no play.
- Check and replace, if necessary.

Fulcrum Support:

- Check and tighten screws, if necessary.
- Limit switches must contact in end positions.
- Check and adjust, if necessary.
- Check spindle drive on play and grease lightly.
- Adjust or replace, if necessary.
- Check belt drive on tension. Adjust if necessary.
- Clean coupling bar carriage (film plane). Lightly grease slide rail and fulcrum.
- Check fulcrum on film plane and adjust, if necessary.
- Check electrical connections and cables on damage. Replace, if necessary.

Digital Display:

- Layer height must coincide with height indicated. If necessary, readjust acc. 3.2.

Tomo Coupler:

- Check and tighten screws, if necessary.
- Operate magnet by hand and couple flap with bar carriage. Flap must not be too high and should couple without play. Check and readjust, if necessary.
- Check microswitch actuation.

Electrical Unit:

- Check electrical connections and cables on damage. Replace, if necessary.
- Check and tighten mechanical fastening devices, if necessary.
- Check all parts on firmness. Tighten, if necessary.

Control Box:

- Check and tighten mechanical fastening to table frame, if necessary.
- Check friction of swing and readjust, if necessary.
- Check functioning of all controls and buttons.

4.2. Functional Tests

Tube Coupler:

- Folding up and down smoothly? Without play?
- Remaining in park position accurately? (Recuperating spring, magnet)
- Locking the coupling bar without play?

Fulcrum Support:

- Layer height drive running without noise?
- Coupling bar remaining in center position accurately?

Digital Display:

- Display correct?
- No indication jumps?

Tomo Coupler:

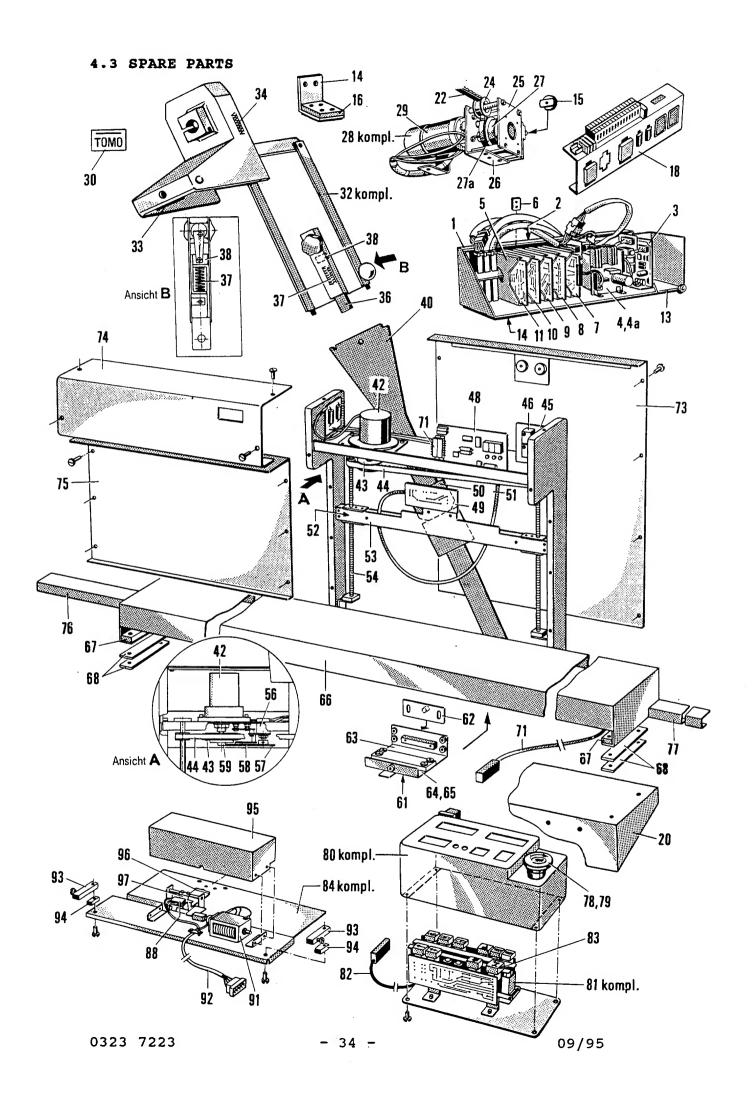
- Coupling without play?
- Not bumping against sledge edges?

Electrical Unit:

- All electrical cables without damage?
- All connections correct and tight?

Control Box:

- Swing having friction in any position?
- All buttons switching accurately?



4.3.1 SPARE PARTS LIST Part Names / Ordering Numbers

Failed spare parts may be replaced only with original parts as listed below. When ordering spare parts always indicate serial number of unit and complete number of part. The exchange of parts or elements may only be carried out by ourselves or by qualified personnel being authorized to do so. See also chapter: "Safety Notes".

REF.No. Name			No.
1	Frame	0322	0910
2	Harness	0322	1070
3	Transformer	0622	0651
4	Control	0006	0248a
4a	P.C. Board, variable		0248b
5	Frame		0213
6	Supporting part		0214a
7	Circuit board	0322	0869
8	Circuit board		0866
9	Circuit board		0867
	Circuit board		0868
11	Amplifying board	0322	0865
12			
13	Drawer guide		0158f
14	Angle		0335
15	Nut for T-notch		0654
16	Belt clamp plate	0323	0663
17			
18	Tomo-interface	0323	0706
19			
20	Bracket	0323	0682
21	-		
22	Belt	0660	0877
23	makeesee	0000	0640
24	Return pulley		0648
25	Bracket		0651
26	Mounting bracket		0644 0478
27 27a	Coupling Gear wheel		0478 0754a
27a 28			0754a
20 29	Drive system Motor		0195a
30	Tomo mark		0195a
31	TOMO Mark	0322	0700
32	Tubo gounlar gamplata	0222	0500
33	Tube coupler complete		0590 0094
	Magnet Compression spring		
34 35	Compression spring	0005	0040a
36	Bolt	0322	0733
37	Compression spring	0005	0042p
38	Strap	0322	0736
39			
40	Coupling bar	0322	0627

REF.	No. Name	Part	No.
41			
42	Gearmotor	0322	0528
43	Toothed belt wheel	0322	0530
44	Toothed belt	0005	0116
45	Switching bar	0322	0586
	Switch		0079a
47			
	Circuit board	0322	0952
	Switch		0875
	Reflector (on - off)		0588a
51	Reflector (on)		0588b
52	Acme thread nut		0526
	Bridge		0534
54	Lifting spindle		0522
55	bill of the second of the seco	0000	0322
56	10-speed potentiometer	0006	0251a
57	Gear		0971
58	Gear		0968
	Pinion		0960
60	1111011	0322	0,000
	Switch	0322	0569
	Driver		0572
	Carriage complete		0558
	Catch		0566
65	Spring		0567
	Bridge		0608
67	Clamp		0616
68	Spacer		0615
69	phacer	0322	0013
70			
71	Cable	0333	0435
72	Cable	0323	0433
73	Rear cover	0323	0318
74			0320
75	Front cover		0317
76	110110 00101	0323	0317
77			
78	Dry rot key	0006	0260
79	Switch element		0816
80	Control part complete		0444
81	Switch board		0909
82	Cable		0453
83	Bulb		0001
84	Bucky tomo coupler		0580
85		0020	0000
86			
87	Switch	0006	0079a
88			
89			
90			
91	Solenoid	0006	0245
92	Cable		0582
93	Extension		0674
94			
95	Magnet cover	0322	0672
96	Coupling plate		0642
97			

4.4 Inspection/Maintenance Certification

Inspection/Maintenance has been carried out according to the maintenance instructions of the manufacturer. Where required, defective parts have been replaced by genuine spare parts as listed below:

Replacement	s: (Give Item-No	o. only)		
Date	Service Company	(Stamp)	Signature	

Subject to technical alterations.

TV/Ru

Hans Pausch Röntgengerätebau D-91056 Erlangen Germany Graf-Zeppelin-Straße 1

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